

RECEIVED
FEB 13 2002
TECH CENTER 1600/2900

#6/10
04-09-02



1645

RAW SEQUENCE LISTING

DATE: 02/11/2002

PATENT APPLICATION: US/09/902,853A

TIME: 08:29:10

Input Set : N:\Crf3\02042002\I902853A.raw

Output Set: N:\CRF3\02112002\I902853A.raw

PS

1 <110> APPLICANT: Genentech, Inc.
2 Ashkenazi, Avi
3 Botstein, David
4 Desnoyers, Luc
5 Eaton, Dan L.
6 Ferrara, Napoleone
7 Filvaroff, Ellen
8 Fong, Sherman
9 Gao, Wei-Qiang
10 Gerber, Hanspeter
11 Gerritsen, Mary E.
12 Goddard, A.
13 Godowski, Paul J.
14 Grimaldi, Christopher J.
15 Gurney, Austin L.
16 Hillan, Kenneth, J.
17 Kljavin, Ivar J.
18 Mather, Jennie P.
19 Pan, James
20 Paoni, Nicholas F.
21 Roy, Margaret Ann
22 Stewart, Timothy A.
23 Tumas, Daniel
24 Williams, P. Mickey
25 Wood, William, I.
26 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
27 Acids Encoding the Same
28 <130> FILE REFERENCE: 10466-14
C--> 29 <140> CURRENT APPLICATION NUMBER: US/09/902,853A
30 <141> CURRENT FILING DATE: 2001-07-10
31 <150> PRIOR APPLICATION NUMBER: PCT/US00/04414
32 <151> PRIOR FILING DATE: 2000-02-22
33 <150> PRIOR APPLICATION NUMBER: US 60/143,048
34 <151> PRIOR FILING DATE: 1999-07-07
35 <150> PRIOR APPLICATION NUMBER: US 60/145,698
36 <151> PRIOR FILING DATE: 1999-07-26
37 <150> PRIOR APPLICATION NUMBER: US 60/146,222
38 <151> PRIOR FILING DATE: 1999-07-28
39 <150> PRIOR APPLICATION NUMBER: PCT/US99/20594
40 <151> PRIOR FILING DATE: 1999-09-08
41 <150> PRIOR APPLICATION NUMBER: PCT/US99/20944
42 <151> PRIOR FILING DATE: 1999-09-13
43 <150> PRIOR APPLICATION NUMBER: PCT/US99/21090

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/902,853A

DATE: 02/11/2002

TIME: 08:29:10

Input Set : N:\Crf3\02042002\I902853A.raw

Output Set: N:\CRF3\02112002\I902853A.raw

```

44 <151> PRIOR FILING DATE: 1999-09-15
45 <150> PRIOR APPLICATION NUMBER: PCT/US99/21547
46 <151> PRIOR FILING DATE: 1999-09-15
47 <150> PRIOR APPLICATION NUMBER: PCT/US99/23089
48 <151> PRIOR FILING DATE: 1999-10-05
49 <150> PRIOR APPLICATION NUMBER: PCT/US99/28214
50 <151> PRIOR FILING DATE: 1999-11-29
51 <150> PRIOR APPLICATION NUMBER: PCT/US99/28313
52 <151> PRIOR FILING DATE: 1999-11-30
53 <150> PRIOR APPLICATION NUMBER: PCT/US99/28564
54 <151> PRIOR FILING DATE: 1999-12-02
55 <150> PRIOR APPLICATION NUMBER: PCT/US99/28565
56 <151> PRIOR FILING DATE: 1999-12-02
57 <150> PRIOR APPLICATION NUMBER: PCT/US99/30095
58 <151> PRIOR FILING DATE: 1999-12-16
59 <150> PRIOR APPLICATION NUMBER: PCT/US99/30911
60 <151> PRIOR FILING DATE: 1999-12-20
61 <150> PRIOR APPLICATION NUMBER: PCT/US99/30999
62 <151> PRIOR FILING DATE: 1999-12-20
63 <150> PRIOR APPLICATION NUMBER: PCT/US00/00219
64 <151> PRIOR FILING DATE: 2000-01-05
65 <160> NUMBER OF SEQ ID NOS: 423
67 <210> SEQ ID NO: 1
68 <211> LENGTH: 1825
69 <212> TYPE: DNA
70 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 1
72   actgcacctc gggttctatcg attgaattcc ccgggggatcc tctagagatc cctcgacctc 60
73   gaccacgcgc tccggggccgg agcagcacgg ccgcaggacc tggagctccg gctgcgtctt 120
74   cccgcagcgc taccgcccat gcgectgccg cgcggggccg cgctggggct cctgccgctt 180
75   ctgctgctgc tgcgcgccgc gccggaggcc gccaaagaag cgacgccctg ccaccggtgc 240
76   cgggggctgg tggacaagtt taaccagggg atggtggaca ccgcaaagaa gaactttggc 300
77   ggcggaaca cggcttgga ggaagagacg ctgtccaagt acgagtccag cgagattcgc 360
78   ctgctggaga tccctggagg gctgtgagag agcagcgact tcgaatgcaa tcagatgcta 420
79   gaggcgcagg aggagcacct ggaggcctgg tggctgcagc tgaagagcga atatcctgac 480
80   ttattcgagt ggttttgtgt gaagacactg aaagtgtgct gctctccagg aacctacggt 540
81   cccgactgtc tcgcatgcca gggcggatcc cagaggccct gcagcgggaa tggccactgc 600
82   agcggagatg ggagcagaca gggcgacggg tcctgccggt gccacatggg gtaccagggc 660
83   ccgctgtgca ctgactgcat ggacggctac ttcagctcgc tccggaacga gaccacagc 720
84   atctgcacag cctgtgacga gtcctgcaag acgtgctcgg gcctgaccaa cagagactgc 780
85   ggcgagtgtg aagtgggctg ggtgctggac gagggcgccg gtgtggatgt ggacgagtgt 840
86   gcggcccgagc cgcctccctg cagcgctgcg cagttctgta agaacgcaa cggtccctac 900
87   acgtgcgaag agtgtgactc cagctgtgtg ggctgcacag gggaaggccc aggaaactgt 960
88   aaagagtgtg tctctggcta cgcgaggagg cacggacagt gtgcagatgt ggacgagtgc 1020
89   tcactagcag aaaaaacctg tgtgaggaaa aacgaaaact gctacaatac tccagggagc 1080
90   tacgtctgtg tgtgtcctga cggttcgaa gaaacggaag atgcctgtgt gccgccggca 1140
91   gaggctgaag ccacagaagg agaaagcccg acacagctgc cctcccgcga agacctgtaa 1200
92   tgtgccggag ttacccttta aattattcag aaggatgtcc cgtggaaaat gtggccctga 1260
93   ggatgccgtc tccctgcagtg gacagcggcg gggagaggct gcctgctctc taacggttga 1320

```

RAW SEQUENCE LISTING

DATE: 02/11/2002

PATENT APPLICATION: US/09/902,853A

TIME: 08:29:10

Input Set : N:\Crf3\02042002\I902853A.raw

Output Set: N:\CRF3\02112002\I902853A.raw

```

94      ttctcatttg tcccttaaac agotgcattt cttggttggt cttaaacaga cttgtatatt 1380
95      ttgatacagt tctttgtaat aaaattgacc attgtaggta atcaggagga aaaaaaaaaa 1440
96      aaaaaaaaaa aaagggcggc cgcgactcta gagtcgacct gcagaagctt ggccgccatg 1500
97      gcccaacttg ttattgcag cttataatgg ttacaaataa agcaatagca tcacaaattt 1560
98      cacaaataaa gcatTTTTTT cactgcattc tagttgtggt ttgtccaaac tcatcaatgt 1620
99      atcttatcat gtctggatcg ggaattaatt cggcgagca ccatggcctg aaataacctc 1680
100     tgaaagagga acttggttag gtaccttctg aggcggaaag aaccagctgt ggaatgtgtg 1740
101     tcagttaggg tgtggaaagt ccccgagctc cccagcaggc agaagtatgc aagcatgcat 1800
102     ctcaattagt cagcaacca gtttt                                     1825
104 <210> SEQ ID NO: 2
105 <211> LENGTH: 353
106 <212> TYPE: PRT
107 <213> ORGANISM: Homo sapiens
108 <400> SEQUENCE: 2
109     Met Arg Leu Pro Arg Arg Ala Ala Leu Gly Leu Leu Pro Leu Leu Leu
110         1             5             10             15
111     Leu Leu Pro Pro Ala Pro Glu Ala Ala Lys Lys Pro Thr Pro Cys His
112             20             25             30
113     Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met Val Asp Thr
114             35             40             45
115     Ala Lys Lys Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Lys Thr
116             50             55             60
117     Leu Ser Lys Tyr Glu Ser Ser Glu Ile Arg Leu Leu Glu Ile Leu Glu
118             65             70             75             80
119     Gly Leu Cys Glu Ser Ser Asp Phe Glu Cys Asn Gln Met Leu Glu Ala
120             85             90             95
121     Gln Glu Glu His Leu Glu Ala Trp Trp Leu Gln Leu Lys Ser Glu Tyr
122             100            105            110
123     Pro Asp Leu Phe Glu Trp Phe Cys Val Lys Thr Leu Lys Val Cys Cys
124             115            120            125
125     Ser Pro Gly Thr Tyr Gly Pro Asp Cys Leu Ala Cys Gln Gly Gly Ser
126             130            135            140
127     Gln Arg Pro Cys Ser Gly Asn Gly His Cys Ser Gly Asp Gly Ser Arg
128             145            150            155            160
129     Gln Gly Asp Gly Ser Cys Arg Cys His Met Gly Tyr Gln Gly Pro Leu
130             165            170            175
131     Cys Thr Asp Cys Met Asp Gly Tyr Phe Ser Ser Leu Arg Asn Glu Thr
132             180            185            190
133     His Ser Ile Cys Thr Ala Cys Asp Glu Ser Cys Lys Thr Cys Ser Gly
134             195            200            205
135     Leu Thr Asn Arg Asp Cys Gly Glu Cys Glu Val Gly Trp Val Leu Asp
136             210            215            220
137     Glu Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro Pro
138             225            230            235            240
139     Cys Ser Ala Ala Gln Phe Cys Lys Asn Ala Asn Gly Ser Tyr Thr Cys
140             245            250            255
141     Glu Glu Cys Asp Ser Ser Cys Val Gly Cys Thr Gly Glu Gly Pro Gly
142             260            265            270
143     Asn Cys Lys Glu Cys Ile Ser Gly Tyr Ala Arg Glu His Gly Gln Cys

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/902,853A

DATE: 02/11/2002

TIME: 08:29:10

Input Set : N:\Crif3\02042002\I902853A.raw

Output Set: N:\CRF3\02112002\I902853A.raw

```

144          275          280          285
145      Ala Asp Val Asp Glu Cys Ser Leu Ala Glu Lys Thr Cys Val Arg Lys
146          290          295          300
147      Asn Glu Asn Cys Tyr Asn Thr Pro Gly Ser Tyr Val Cys Val Cys Pro
148      305          310          315          320
149      Asp Gly Phe Glu Glu Thr Glu Asp Ala Cys Val Pro Pro Ala Glu Ala
150          325          330          335
151      Glu Ala Thr Glu Gly Glu Ser Pro Thr Gln Leu Pro Ser Arg Glu Asp
152          340          345          350
153      Leu
155 <210> SEQ ID NO: 3
156 <211> LENGTH: 2206
157 <212> TYPE: DNA
158 <213> ORGANISM: Homo sapiens
159 <400> SEQUENCE: 3
160      cagggtccaac tgcacctcgg ttctatcgat tgaattcccc ggggatacctc tagagatccc 60
161      tcgacctcga cccacgcgtc cgccaggccg ggaggcgacg cgccagccg tctaaacggg 120
162      aacagccctg gctgagggag ctgcagcgca gcagagtatc tgacggcgcc aggttgcgta 180
163      ggtgcggcac gaggagtttt cccggcagcg aggaggtcct gagcagcatg gcccgaggga 240
164      gcgccttccc tgcgcgcgcg ctctggctct ggagcatcct cctgtgcctg ctggcactgc 300
165      gggcgaggcg cgggcgcgcg caggaggaga gcctgtacct atggatcgat gctcaccagg 360
166      caagagtact cataggattt gaagaagata tcctgattgt ttcagagggg aaaatggcac 420
167      cttttacaca tgatttcaga aaagcgcaac agagaatgcc agctattcct gtcaatatcc 480
168      attccatgaa ttttacctgg caagctgcag ggcaggcaga ataattctat gaattcctgt 540
169      ccttgcgctc cctggataaa ggcacatgag cagatccaac cgtcaatgtc cctctgctgg 600
170      gaacagtgcc tcacaaggca tcagttgttc aagttggttt cccatgtctt ggaaaacagg 660
171      atggggtggc agcatttgaa gtggatgtga ttgttatgaa ttctgaaggc aacaccattc 720
172      tccaaacacc tcaaaatgct atcttcttta aaacatgtca acaagctgag tgcccaggcg 780
173      ggtgcggaaa tggaggcttt tgtaatgaaa gacgcactct cgagtgtcct gatgggttcc 840
174      acggacctca ctgtgagaaa gccctttgta cccacgatg tatgaatggg ggactttgtg 900
175      tgactcctgg tttctgcate tgcccacctg gattctatgg agtgaactgt gacaaagcaa 960
176      actgtccaac cacctgcttt aatggaggga cctgtttcta ccctggaaaa tgtatttgcc 1020
177      ctccaggact agagggagag cagtgtgaaa tcagcaaatg cccacaacct tgtcgaaatg 1080
178      gaggtaaatg cattggtaaa agcaaatgta agtgttccaa aggttaccag ggagacctct 1140
179      gttcaaaagg tgtctgcgag cctggctgtg gtgcacatgg aaactgccat gaacccaaca 1200
180      aatgccaatg tcaagaaggc tggcatggaa gacactgcaa taaaaggtag gaagccagcc 1260
181      tcatacatgc cctgaggcca gcaggcgccc agctcaggca gcacacgctc tcaacttaaa 1320
182      aggccgagga gcggcgggat ccacctgaat ccaattacat ctggtgaact ccgacatctg 1380
183      aaacgtttta agttacacca agttcatagc ctttgttaac ctttcatgtg ttgaatgttc 1440
184      aaataatggt cattacactt aagaatactg gcctgaattt tattagcttc attataaatc 1500
185      actgagctga tatttactct tccttttaag ttttctaagt acgtctgtag catgatggta 1560
186      tagattttct tgtttcagtg ctttgggaca gattttatat tatgtcaatt gatcaggtta 1620
187      aaattttcag tgtgtagttg gcagatattt tcaaaattac aatgcattta tgggtgtctg 1680
188      gggcagggga acatcagaaa ggttaaattg ggcaaaaatg cgtaagtcac agaatttg 1740
189      atggtgcagt taatggtgaa gttacagcat ttcagatttt attgtcagat atttagatgt 1800
190      ttgttacatt tttaaaaatt gctcttaatt tttaaactct caatacaata tattttgacc 1860
191      ttaccattat tccagagatt cagtattaaa aaaaaaaaaa ttacactgtg gtagtggcat 1920
192      ttaacaataa taatatattc taaacacaat gaaataggga atataatgta tgaacttttt 1980
193      gcattggctt gaagcaatat aatatattgt aaacaaaaca cagctcttac ctaataaaca 2040

```

RAW SEQUENCE LISTING

DATE: 02/11/2002

PATENT APPLICATION: US/09/902,853A

TIME: 08:29:10

Input Set : N:\Crf3\02042002\I902853A.raw

Output Set : N:\CRF3\02112002\I902853A.raw

```

194      ttttatactg tttgtatgta taaaataaag gtgctgcttt agtttttttg aaaaaaaaaa 2100
195      aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgccgc gactctagag tcgacctgca 2160
196      gaagcttggc cgccatggcc caacttggtt attgcagctt ataatg                2206
198 <210> SEQ ID NO: 4
199 <211> LENGTH: 379
200 <212> TYPE: PRT
201 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 4
203      Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Ala Leu Trp Leu Trp Ser
204           1             5             10             15
205      Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro Pro Gln
206           20             25             30
207      Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala Arg Val Leu
208           35             40             45
209      Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu Gly Lys Met Ala
210           50             55             60
211      Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln Arg Met Pro Ala Ile
212           65             70             75             80
213      Pro Val Asn Ile His Ser Met Asn Phe Thr Trp Gln Ala Ala Gly Gln
214           85             90             95
215      Ala Glu Tyr Phe Tyr Glu Phe Leu Ser Leu Arg Ser Leu Asp Lys Gly
216           100            105            110
217      Ile Met Ala Asp Pro Thr Val Asn Val Pro Leu Leu Gly Thr Val Pro
218           115            120            125
219      His Lys Ala Ser Val Val Gln Val Gly Phe Pro Cys Leu Gly Lys Gln
220           130            135            140
221      Asp Gly Val Ala Ala Phe Glu Val Asp Val Ile Val Met Asn Ser Glu
222           145            150            155            160
223      Gly Asn Thr Ile Leu Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr
224           165            170            175
225      Cys Gln Gln Ala Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys
226           180            185            190
227      Asn Glu Arg Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His
228           195            200            205
229      Cys Glu Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys
230           210            215            220
231      Val Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn
232           225            230            235            240
233      Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr Cys
234           245            250            255
235      Phe Tyr Pro Gly Lys Cys Ile Cys Pro Pro Gly Leu Glu Gly Glu Gln
236           260            265            270
237      Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly Gly Lys Cys
238           275            280            285
239      Ile Gly Lys Ser Lys Cys Lys Cys Ser Lys Gly Tyr Gln Gly Asp Leu
240           290            295            300
241      Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly Ala His Gly Thr Cys
242           305            310            315            320
243      His Glu Pro Asn Lys Cys Gln Cys Gln Glu Gly Trp His Gly Arg His

```

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 02/11/2002

PATENT APPLICATION: US/09/902,853A

TIME: 08:29:11

Input Set : N:\Crf3\02042002\I902853A.raw

Output Set: N:\CRF3\02112002\I902853A.raw

L:29 M:270 C: Current Application Number differs, Wrong Format
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:3206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131
L:4238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174
L:4338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:5176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206